

# Notice of Allowability

Application No.

10/716,891

Examiner

Eric Hug

Applicant(s)

CABRERA-LLANOS ET AL.

Art Unit

1731

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on March 28, 2006.
2. ☒ The allowed claim(s) is/are 6-10, 14 and 17-24.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**Response to Amendment**

The following is in response to the amendment filed on March 28, 2006.

***Allowable Subject Matter***

Claims 6-10, 14, and 17-24 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art does not disclose or suggest a burner for burning pulverized fuel in conjunction with a glass melting furnace comprising the claimed main body and claimed flow distribution means having an entrance end connected in alignment with the lower end of the main body, wherein the flow distribution means comprises at least the corresponding features of:

Claims 17, 6-10, and 14: The discharge nozzle of the flow distribution means has at least one plurality of peripheral orifices being formed transversely around the periphery of the cylindrical member to provide communication between the second connecting chamber (defined by the inner and intermediate bodies of the flow distribution means) and the central orifice of the discharge nozzle.

Claims 18-20: The discharge nozzle of the flow distribution means has at least a central orifice in a frusto-conical form, with a diameter less in a front portion thereof than in a rear portion thereof, and with the central orifice in coincidence with the main fluid chamber.

Claim 21: The discharge nozzle of the flow distribution means has at least one plurality of orifices disposed in coincidence with the second connecting chamber and the discharge ends of the flow distribution means are separated with an angle ranging from about 10<sup>0</sup> to about 20<sup>0</sup> between each other.

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Claims 22 and 23: The discharge nozzle of the flow distribution means has at least one plurality of orifices disposed in coincidence with the second connecting chamber and the main body includes a conical section being uniformly reduced from a major diameter to a minor diameter in the body of the burner, the minor diameter being connected with the flow distribution means.

Claim 24: The discharge nozzle of the flow distribution means has at least one plurality of orifices disposed in coincidence with the second connecting chamber and formed in an angular position to provide a swirl effect to a first flow of air or gas and to a pulverized fuel-air mixture.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Response to Arguments***

Applicant's arguments filed March 28, 2006 have been considered.


The amendments to the claims have overcome the rejections under 35 U.S.C. 112, second paragraph, set forth previously.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Hug whose telephone number is 571 272-1192.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
jeh